30 SOUTH EWING
HELENA, MT 59601

BISON
ENGINEERING, INC.

PHONE: 406-442-5768
FAX: 406-449 6653

April 24, 1997

Karen Wilson
Montana Department of Environmental Quality
Air Quality Division
301 West Alder
Missoula, MT 59802

Re: Compliance Source Test Report, Stimson Lumber, Libby Montana

Dear Karen:

Enclosed is the NO_x and CO test report which was conducted at Stimson Lumber in Libby, Montana on February 26, 1997.

Please contact me with any comments or questions at 442-5768.

Sincerely,
BISON ENGINEERING INC.

Edward A. Santos, jr.
Staff Engineer

enc.

cc: Don Day

Stimson Lumber Co.
Zurn Hogged-Fuel Boiler

Nitrogen Oxides and Carbon Monoxide Compliance Emission Testing

Test Date:

February 26, 1997

Prepared for:
Stimson Lumber Co.
P.O. Box 1120
Libby, MT 59923

Prepared by:
Bison Engineering, Inc.
30 South Ewing
Helena, MT 59601
(406) 442-5768

Report Date: April 7, 1997

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EXECUTIVE SUMMARY

Bison Engineering, Inc. (Bison) was contracted by Stimson Lumber Co. (Stimson) to conduct emission testing at their plywood and finger joint facility, located in Libby, Montana. The purpose for testing was to determine compliance with nitrogen oxides (NO_x) and carbon monoxide (CO) emission limits for the Zurn Hogged-Fuel Boiler (Zurn). The Montana Department of Environmental Quality (MDEQ) Permit #2627-06 emission limits for the Zurn boiler are 57.6 pounds per hour (lbs/hr) NO_x, and 311.5 lbs/hr CO.

The compliance testing was performed on February 26, 1997 using testing procedures from Title 40 Code of Federal Regulations (CFR,) Part 60, Appendix A. Methods 1, 2, 3A, 4, 7E, and 10 were employed for sampling point measurements, flow, stack molecular weight determination, NO_x determination, and CO determination, respectively. The testing was performed during maximum boiler load conditions of approximately 79,000 pounds of steam per hour.

The following test summary includes the average NO_x, CO, flow, and moisture measurements from the three tests:

- Average NO_x is 8.48 lbs/hr
- Average CO is 245.5 lbs/hr
- Average flow is 23,146 dry standard cubic feet per minute (dscfm)
- Average moisture is 19.3%